

**WILDLAND URBAN INTERFACE (WUI)**  
**RECOMMENDED PROCEDURES TO COMPLY WITH**  
**IGNITION-RESISTANT CONSTRUCTION GUIDELINES**

The following are guidelines developed to assist persons who need to alter a manufactured home, mobilehome or multifamily manufactured home at the time of installation or an existing home when either is located in a designated fire hazard severity zone in California. These guidelines are meant to provide homeowners and contractors with a recommended process to obtain the necessary information to successfully complete the application, construction, and inspection procedures. This information covers only changes to the home itself, and not any other structures on the lot.

**STEP 1. DETERMINING RESPONSIBILITY FOR REDUCTION OF WILDFIRE EXPOSURE**

1. Contact the jurisdiction responsible for fire protection for the area in which the home is or will be located. This could be the local building department, local (city or county) Fire Marshal's office, County Fire Department or local California Department of Forestry and Fire Protection (CALFIRE) unit headquarters. Ask the responsible personnel whether the property upon which the home is or will be located is within a designated WUI area, and ask that they complete the attached form. The three (3) types of Wildland Urban Interface (WUI) areas are:
  - State Responsibility Area (SRA).
  - Local Very-High Fire Hazard Severity Zone (LRA), or
  - Local Wildland-Urban Interface Fire Area (WUI)
2. If the responsible personnel indicate that the property is in one of the above noted WUI areas, ask the responsible personnel whether exterior ignition-resistant construction on that property site must either fully or partially comply with the California Building Code (CBC), Chapter 7A. Make note of all information provided by the responsible personnel. This includes whether only certain portions of CBC, Chapter 7A would apply and what these portions are. Obtain any brochures, details, plans or handouts, and contact name(s) and telephone number(s) from the responsible personnel for the local or state jurisdiction providing you information.

**STEP 2. PRE-CONSTRUCTION / ALTERATION PROCEDURE**

1. Review the information provided by the Department of Housing and Community Development (HCD) for ignition-resistant construction of manufactured homes, mobilehomes and multifamily manufactured homes. The information may be obtained from the HCD area office or on the HCD website at [www.hcd.ca.gov/codes/mhp](http://www.hcd.ca.gov/codes/mhp) and includes:

**Wildland Urban Interface (WUI)**

[Frequently Asked Questions](#)

[Wildland Urban Interface \(WUI\) Products](#)

[California Code of Regulations Title 25, Article 2.3](#)

[Chapter 7A](#)

2. Unless you are qualified to perform the construction alterations, you should consider obtaining the services of a "C-47" or "B" contractor that is licensed by the Contractors State Licensing Board (CSLB). HCD recommends that you refer to the CSLB website for tips on hiring a contractor <http://www.cslb.ca.gov/>. Choose a contractor that has references and demonstrates knowledge and experience relating to this type of construction. Owner-builders

may perform alterations on their manufactured home, mobilehome or multifamily manufactured home without the services of a licensed contractor if desired. The owner-builder will be responsible to obtain the necessary permit, obtain plan review if necessary and obtain HCD inspections, and correct errors and construction defects prior to inspection approval.

### **STEP 3. ALTERATION AND INSPECTION PROCEDURE**

1. After reviewing the requirements provided in the HCD regulations located in California Code of Regulations, Title 25, Division 1, Chapter 3, Subchapter 2, Article 2.3 (beginning with section 4200) and the California Code of Regulations, Title 24, Part 2, California Building Code, Chapter 7A, prepare a detailed list of all exterior ignition-resistant products intended for construction or alteration of the MH unit necessary to comply for HCD review (this will include exterior doors, windows, wall siding and sheathing, under-eave material, roof shingles, etc.).

List each product manufacturer's name, model or material type/name. Make sure each product is either approved by the California State Fire Marshal's Office and is listed in its WUI Products booklet (see [Wildland Urban Interface \(WUI\) Products](#)), or that each product is suitable for exterior ignition-resistant construction provided in CBC, Chapter 7A.

It is helpful to attach the installation instructions (photocopy or original) of each material to the list for submittal with the permit application.

2. Obtain the form "HCD 415 Application" from either of HCD's field offices or through the HCD website [www.hcd.ca.gov/codes/mhp/hcd415.pdf](http://www.hcd.ca.gov/codes/mhp/hcd415.pdf).

Review the instructions provided on "Side 2" of the form pertaining to "Alteration, Addition or Conversion", and complete the sections accordingly and sign the form. Check the "Alteration" box at the top of the form. You must have permit approval prior to beginning construction. If you hire a contractor, make sure the contractor completes and submits the form as the applicant and receives permit approval prior to construction.

In Section 4 of the form, list the construction that is proposed for the exterior alteration and summarize the method of construction on the form itself or attach a summary. For example, the construction description should read: "Remove existing metal siding and replace with APA 303 Plywood siding, 19/32" thick." Be sure to clearly describe each alteration performed that requires inspection.

3. Complete your own "Ignition-Resistant Construction Certificate" similar to one provided below as an attachment, and list the ignition-resistant materials installed on the manufactured home, mobilehome or multifamily manufactured home. Sign and submit it along with the completed HCD 415 application, list of products, and attached installation instructions.
4. Include the fees for alteration required by HCD (\$196). Additional fees for plan review may be required as necessary to determine compliance of the proposed alteration(s).
5. Upon HCD approval of the HCD 415 Application, you may proceed with the alteration. We recommend you contact the HCD inspector assigned to inspect this alteration for your area for guidance on inspection prior to beginning the alteration work. Depending upon the extent of the alterations, multiple inspections may be necessary, and will include additional fees for those inspections. Generally, inspections will be performed in stages to ensure compliance

such as an inspection of the roof-sheathing/underlayment prior to the installation of the roof shingles. The HCD field inspectors will advise you of the minimum required inspections and the sequence.

6. **The installation of all products must be in accordance with production installation instructions/listings and the approved plans.** Retain all installation instructions and shingle bundle wrappings on site for review by the HCD inspector.
7. All exterior HUD labels, decals, insignias, etc. must not be destroyed and must be retained and replaced in their proper location on the exterior of each section.

## **STEP 4. COMPLETION OF WUI MATERIALS CHECKLIST GUIDE**

### **WUI MATERIALS CHECKLIST GUIDE**

#### **I. ROOFING CHECKLIST**

(Refer to Chapter 7A, Section 704A.1.1)

- ☐ Class A, B, or C roof covering / shingle classification in accordance with CBC, Chapter 15, section 1505.1.1.
- ☐ Roof covering sheathing/underlayment shall be in accordance with the requirements of the roof covering manufacturer's installation instructions and listing.
- ☐ Valley flashing, if used: Not less than .019-inch No. 26 galvanized sheet gauge.
- ☐ Gutter covers, if gutters are installed.
- ☐ Eave and cornice venting eliminated, or such vents approved and listed by the Office of the State Fire Marshal (OSFM) only.
- ☐ Attic vents are corrosion resistant, noncombustible not greater than 1/4 inch mesh openings, or listed by OSFM for resistance to intrusion of flame and embers into attic area.
- ☐ Eave and soffits protected by listed ignition-resistant materials or noncombustible construction that complies with SFM Standard 12-7A-3.

#### **II. EXTERIOR WALLS – WALL VENTING – GLAZING CHECKLIST**

(Refer to Chapter 7A, section 704A.3)

- ☐ Approved ignition-resistant exterior siding material, heavy timber, or log wall construction, or comply with SFM Standard 12-7A-1 only.
- ☐ Exterior wall and combustion air vents: listed product that will resist intrusion of flame and embers into the structure or screened with corrosion resistant, noncombustible not greater than 1/4 inch mesh openings or equivalent.
- ☐ Exterior windows, windows in doors, and glazed doors to be either:
  - insulated glass units with at least one tempered pane, or
  - glass block, or
  - 20-minute rated fire assembly per ASTM E 2010 or in accordance with SFM Standard 12-7A-2.
- ☐ Exterior doors to be either:
  - approved under SFM Standard 12-7A-1,
  - non-combustible construction,
  - solid wood (1-3/8 inches), or
  - fire rated not less than 20-minutes as tested by ASTM E 2074.

(Exception: Non-combustible or fire-retardant treated wood vehicle access doors)

### III. EXTERIOR DECKING SURFACE CHECKLIST

(Refer to Chapter 7A, section 704A.4.1)

- Decking surfaces constructed as part of the manufactured home, mobilehome or multifamily manufactured home shall comply with one of the methods specified in Section 704A.4.1.1 which specifies the following:

**704A.4.1.1 Decking surfaces.** Decking, surfaces, stair, treads, risers, and landings of decks, porches, and balconies where any portion of such surface is within 10 feet (3048 mm) of the primary structure shall comply with one of the following methods:

1. Shall be constructed of ignition-resistant materials and pass the performance requirements of SFM 12-7A-4, Parts A and B.
2. Shall be constructed with heavy timber, exterior fire-retardant-treated wood or approved noncombustible materials.
3. Shall pass the performance requirements of SFM 12-7A-4, Part A, 12-7A-4.7.5.1 only with a net peak heat release rate of 25kW/sq-ft for a 40-minute observation period and:
  - a. Decking surface material shall pass the accelerated weathering test and be identified as exterior type, in accordance with ASTM E 84 and;
  - b. The exterior wall covering to which it the deck is attached and within 10 (3048 mm) feet of the deck shall be constructed of approved noncombustible or ignition-resistant material.

Exception: Walls are not required to comply with this subsection if the decking surface material conforms to ASTM E-84 Class B flame spread.

## **STEP 5. IGNITION-RESISTANT CONSTRUCTION SYSTEM INFORMATION CERTIFICATION**

### **Ignition-Resistant Construction System Information Certification**

**Attention: Do not remove or cover this label**

This structure contains an ignition-resistant construction system. The system installer certifies that the exterior complies with the requirements of Title 25, California Code of Regulations, Chapter 3, Article 2.3, and Title 24, California Code of Regulations, Part 2, Chapter 7A, *Materials and Construction Methods For Exterior Wildfire Exposure*.

**Do not change** (alter) the exterior wall, doors, windows, roof or attic vent materials or devices without written approval of the California Department of Housing and Community Development, Division of Codes and Standards. Only the owner or lessor may change (alter) or repair the ignition-resistant materials as an owner/builder without violating the State Contractors Licensing Board requirements. Any other person making changes (alterations) or repairs to the system must hold a valid C-47 or B contractor's license. Additions of garages, porches, decks, windows or doors may adversely affect the protection provided by the ignition-resistant construction system. You may obtain information about permit and inspection of the ignition-resistant construction system from the California Department of Housing & Community Development, Division of Codes and Standards.

\_\_\_\_\_  
Signature of Manufacturer/Installer

\_\_\_\_\_  
Date

\_\_\_\_\_  
County

\_\_\_\_\_  
State

#### **Installation, Design Approval, and Inspection Agency Information**

Name and Address of Manufacturer/Installer:

Structure Serial Number(s):

Name and Address of Agency Approving Design  
of Ignition-Resistant Construction:

Name and Address of Agency Inspecting Installation  
of Ignition-Resistant Construction:

#### **Roofing Material Listing- Type**

#### **Exterior Siding, Window, Door, Product Listing- Type**

**Roof Material Type & Product Manufacturer Name:**

Underlayment: \_\_\_\_\_

Shingle Type:      Metal                      ☐

                         Asphalt Composition      ☐

Attic Vent Type: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Exterior Wall Type and Product Manufacturer Name:**

Siding Type: \_\_\_\_\_  
\_\_\_\_\_

Exterior door  
Type: \_\_\_\_\_  
\_\_\_\_\_

Window Type: \_\_\_\_\_  
\_\_\_\_\_

(SAMPLE FORMAT)

## **STEP 6. COMPLETION OF VERIFICATION OF WUI CLASSIFICATION**

### **WILDLAND URBAN INTERFACE CLASSIFICATION**

*The following information is used by the Department of Housing and Community Development (HCD) in order to determine the correct installation of materials and construction methods for exterior wildfire exposure. Applicants should obtain information as indicated below from the local authority having jurisdiction, and are requested to submit the following information with the HCD 415 and/or HCD 50 form at the time of permit application to HCD.*

Applicant Name \_\_\_\_\_

Date \_\_\_\_\_ Telephone No. \_\_\_\_\_

#### **Applicant to complete items 1 through 3**

1. Site Location of Home: \_\_\_\_\_
2. Assessor Parcel No. (if known): \_\_\_\_\_
3. Mobilehome Park Name (if applicable) \_\_\_\_\_

#### **Obtain Assistance from Local Authority Having Jurisdiction in completion of the following:**

1. Fire Department or District: \_\_\_\_\_
2. Contact Person and Telephone \_\_\_\_\_

**The home described above is or is intended to be located in an area as noted below:**

- ☐ State Responsibility Area (SRA)
- ☐ Very High      ☐ High      ☐ Moderate      ☐ Unzoned
- ☐ (LRA) Local Agency Very-High Severity Zone
- ☐ (LRA) Wildland Urban Interface Area – Specify the ignition-resistant construction require by the local authority having jurisdiction for fire protection on this property \_\_\_\_\_
- \_\_\_\_\_
- ☐ N/A